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TO : EXAMINER LARRY R. HELMS

COMPANY : UNITED STATES PATENT AND TRADEMARK OFFICE

FAX NO. : 703-308-4242

FROM : ALBERT WAI-KIT CHAN

DOCKET : SHAWN SHUI-ON LEUNG, U.S. PATENT APPLICATION
FOR REDUCING IMMONOGENICITIES OF
IMMUNOGLOBULINS BY FRAMEWORK-PATCHING,
U.S. SERIAL NO. 09/892,613, FILED ON JUNE 27, 2001 -
DKT. #655

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DATE : APRIL 7, 2003

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Message

Applicant: LEUNG, Shawn Shui-on
Client: Shawn Shui-on LEUNG (344)
Date: April 7, 2003

File No.: 655

AMENDMENT IN RESPONSE TO JANUARY 7, 2003 OFFICE ACTION for Shawn Shui-on LEUNG, for REDUCING IMMONOGENICITIES OF IMMUNOGLOBULINS BY FRAMEWORK-PATCHING, U.S. Serial No. 09/892,613, Filed June 27, 2001.

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Dkt. #655

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Shawn Shui-on LEUNG
U.S. Serial No.: 09/892,613 Examiner: Larry Ronald Helms
Filed : June 27, 2001 Art Unit: 1642
For : REDUCING IMMUNOGENICITIES OF IMMUNOGLOBULINS
BY FRAMEWORK-PATCHING

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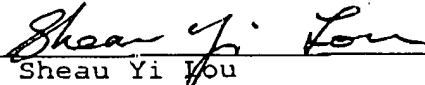
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Assistant Commissioner for Patents
Washington, D.C. 20231

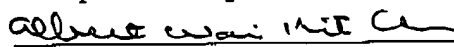
Sir/Madam:

FACSIMILE CERTIFICATE
IN CONNECTION WITH THE ABOVE-IDENTIFIED APPLICATION

I hereby certify that this paper is being sent on the date indicated above and is addressed to Assistant Commissioner for Patents, Washington, D.C. 20231.


Printed Name: Sheau Yi Lou

Respectfully submitted,


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Whitestone, NY 11357

April 7, 2003

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

AMENDMENT RESPONSE TO
THE JANUARY 7, 2003 OFFICE ACTION

This Amendment is submitted in response to the January 07, 2003 Office Action issued by the United States Patent and Trademark Office in connection with the above-identified application. A response to the January 7, 2003 Office Action is due April 7, 2003. Therefore, this Amendment is being timely filed.

Please amend the specification as follows:

In the Abstract, page 51

Please replace the Summary of the Abstract by the following Abstract:

-- Framework (FR)-patching is a novel approach to modify immunoglobulin for reducing potential immunogenicity without significant alterations in specificity and affinity. Unlike previously described methods of humanization, which graft CDRs from a donor onto the frameworks of a single acceptor immunoglobulin, we patch segments of framework (FR1, FR2, FR3,